

## ABSTRACT:

The partitioned block frequency domain adaptive filter according to the invention comprises a plurality of parallel arranged filter partitions. Each filter partition models a part of an impulse response of the adaptive filter and has update means for updating filter coefficients of that filter partition by means of a circular convolution. The update means intermittently constrain these filter coefficients by eliminating circular wrap-around artifacts of the circular convolution. The update means comprise selection means for selecting and removing at least part of the circular wrap-around artifacts. The selection means can be implemented with a relatively low computational complexity by means of an approximation of a rectangular constraint window.

Fig. 7